

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L74	284819	electrolumines\$5 and carbazole\$1same (amin\$7 same derivative\$1)	US-PGPUB; USPAT	OR	ON	2011/09/09 11:54
S147	273526	electrolumines\$5 and carbazole\$1same (amin\$7 same derivative\$1)	US-PGPUB; USPAT	OR	ON	2011/03/21 13:32
L54	179753	(@pd< "20031222" or @ap< "20031224") and (naphthalene light semiconductor).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
L55	178947	(@pd< "20031222" or @ap< "20031224") and (naphthalene and diimide light semiconductor).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
S117	160544	(@pd< "20031222" or @ap< "20031224") and (naphthalene light semiconductor).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:52
S118	159754	(@pd< "20031222" or @ap< "20031224") and (naphthalene and diimide light semiconductor).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:52
L85	115055	oxide same improve ("hole-transporting" or "hole transporting") and electroluminescent and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:57
L33	97728	oxide same improve ("hole-transporting" or "hole transporting") and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50

L84	95472	oxide same improve ("hole-transporting" or "hole-transporting") and electroluminescent and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT	OR	ON	2011/09/09 11:57
L34	91469	oxide same improve ("hole-transporting" or "hole-transporting") adj propriety and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
S61	78637	oxide same improve ("hole-transporting" or "hole-transporting") and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 14:34
S62	74020	oxide same improve ("hole-transporting" or "hole-transporting") adj propriety and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 14:34
L26	5974	("hole injecting" or "hole-transporting" or "hole-injecting" or "hole-transporting" or "hole-injection" or "hole-injection") with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L27	5746	("hole injecting" or "hole-transporting" or "hole-injecting" or "hole-transporting" or "hole-injection" or "hole-injection") with layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L62	5315	electrolumines\$5 and oxide \$1 same ("hole-transporting" or "hole-transporting" or "hole-transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:53
L40	5155	428/690.ccls.	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
S135	4972	electrolumines\$5 and oxide \$1 same ("hole-transporting" or "hole-transporting" or "hole-transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/03/21 13:28

L28	4971	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") adj layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S75	4432	428/690.ccls.	US-PGPUB; USPAT	OR	ON	2009/07/09 09:27
S53	4240	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 09:11
L2	4132	electroluminescent and oxide same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:48
S54	4056	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") with layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 09:11
L83	3951	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") with cathode and electroluminescent and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:57
L21	3598	(carbazole with derivative \$5) same amin\$5	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S55	3408	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") adj layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 09:11

S16	3028	electroluminescent and oxide same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 11:06
S41	2557	(carbazole with derivative \$5) same amin\$5	US-PGPUB; USPAT	OR	ON	2009/06/25 17:14
L77	2350	electroluminescent and oxide same ("hole-transporting" or "hole transporting" or "hole transport") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:55
L19	1610	electroluminescent and carbazole same ("amine" or "amino")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L41	1454	428/690.ccls. and electroluminescent and carbazole	US-PGPUB; USPAT	OR	ON	2011/09/09 11:51
L72	1434	electrolumines\$5 and carbazole\$1 same ("hole-injecting" "hole injecting" (hole with inject \$7))	US-PGPUB; USPAT	OR	ON	2011/09/09 11:54
L82	1320	(carbazole with derivative \$5) same amin\$5 and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:56
S144	1317	electrolumines\$5 and carbazole\$1 same ("hole-injecting" "hole injecting" (hole with inject \$7))	US-PGPUB; USPAT	OR	ON	2011/03/21 13:31
L81	1211	electroluminescent and carbazole same ("amine" or "amino") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:56

S76	1186	428/690.ccls. and electroluminescent and carbazole	US-PGPUB; USPAT	OR	ON	2009/07/09 09:27
L20	1124	electroluminescent and carbazole same ("amine" or "amino") same derivative\$5	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S37	1104	electroluminescent and carbazole same ("amine" or "amino")	US-PGPUB; USPAT	OR	ON	2009/06/25 16:31
L14	1023	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
S145	1014	(vanadium with oxide\$1) same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection")	US-PGPUB; USPAT	OR	ON	2011/03/21 13:31
L22	968	(carbazole with derivative) same amin\$3 and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L73	834	vanadium with oxide\$1 same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electrolumines\$5	US-PGPUB; USPAT	OR	ON	2011/09/09 11:54
L50	821	(@pd<"20031222" or @ap<"20031224") and (naphthalene).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
S107	800	(@pd<"20031222" or @ap<"20031224") and (naphthalene).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:28
L10	762	electroluminescent and "ruthenium oxide"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
S38	761	electroluminescent and carbazole same ("amine" or "amino") same derivative\$5	US-PGPUB; USPAT	OR	ON	2009/06/25 16:31
S146	736	vanadium with oxide\$1 same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electrolumines\$5	US-PGPUB; USPAT	OR	ON	2011/03/21 13:32
S42	628	(carbazole with derivative) same amin\$3 and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/06/25 17:14

L79	560	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:56
S29	546	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection")	US-PGPUB; USPAT	OR	ON	2009/06/25 12:09
L15	525	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
S25	455	electroluminescent and "ruthenium oxide"	US-PGPUB; USPAT	OR	ON	2009/06/25 12:00
S98	428	("electron injecting") with oxadiazole	US-PGPUB; USPAT	OR	ON	2009/07/09 17:26
L70	417	electrolumines\$5 and rhenium adj oxide\$1	US-PGPUB; USPAT	OR	ON	2011/09/09 11:54
L66	394	electrolumines\$5 and vanadium adj oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:53
L67	394	electrolumines\$5 and vanadium adj oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:53
S142	353	electrolumines\$5 and rhenium adj oxide\$1	US-PGPUB; USPAT	OR	ON	2011/03/21 13:30
S139	348	electrolumines\$5 and vanadium adj oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/03/21 13:29
L78	344	electroluminescent and "ruthenium oxide" and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:56

L23	328	(carbazole with derivative) same amin\$3 and electroluminescent and @ay<="2004"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L80	317	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electroluminescent and (428/690 428/917 428/411.1 428/336 313/502 313/503 313/504 313/505 313/506 313/507 313/508 313/509 257/40 257/88 257/104 257/E51 532/1 532/1 540/1).ccls.	US-PGPUB; USPAT; DERWENT	OR	ON	2011/09/09 11:56
S43	308	(carbazole with derivative) same amin\$3 and electroluminescent and @ay<="2004"	US-PGPUB; USPAT	OR	ON	2009/06/25 17:15
S30	298	"vanadium oxide" same ("hole-injecting" or "hole injecting" or "hole injection" or "hole-injection") and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/06/25 12:10
L9	265	electroluminescent and "rhenium oxide"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L6	261	electroluminescent and "vanadium oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L16	251	electroluminescent and carbazole same ("electron-injecting" or "electron injecting" or "electron-injection" or "electron injection")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L37	250	fluorene same ("hole-transporting" or "hole transporting") and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:50
L57	224	(@pd<"20041128" or @ap<"20041130") and electroluminescent and carbazole same oxide	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
L63	203	electrolumines\$5 and inorganic adj compound\$1 same oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:53

L39	199	anthracene with ("hole transporting" or "hole-transporting") and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
S128	183	(@pd<"20041128" or @ap<"20041130") and electroluminescent and carbazole same oxide	US-PGPUB; USPAT	OR	OFF	2010/02/04 13:55
S136	179	electrolumines\$5 and inorganic adj compound\$1 same oxide\$1 same ("hole-transporting" or "hole-transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/03/21 13:28
S32	178	electroluminescent and carbazole same ("electron-injecting" or "electron-injecting" or "electron-injection" or "electron injection")	US-PGPUB; USPAT	OR	ON	2009/06/25 12:53
L71	165	electrolumines\$5 and ruthenium adj oxide\$1 same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:54
S21	158	electroluminescent and "vanadium oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2009/06/25 11:23
S143	146	electrolumines\$5 and ruthenium adj oxide\$1 same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting")	US-PGPUB; USPAT	OR	ON	2011/03/21 13:30
L64	144	electrolumines\$5 and transition same oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:53
S74	141	anthracene with ("hole transporting" or "hole-transporting") and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 17:37
S72	132	fluorene same ("hole-transporting" or "hole transporting") and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/08 17:10

S137	127	electrolumines\$5 and transition same oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/03/21 13:28
L65	126	electrolumines\$5 and transition same oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:53
L11	120	electroluminescent and "ruthenium oxide" same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L12	120	electroluminescent and "ruthenium oxide" same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L38	116	fluorene with ("hole-transporting" or "hole transporting") and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:50
S24	115	electroluminescent and "rhenium oxide"	US-PGPUB; USPAT	OR	ON	2009/06/25 11:26
S138	110	electrolumines\$5 and transition same oxide\$1 same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/03/21 13:29
L68	98	electrolumines\$5 and vanadium adj oxide\$1 same transport\$1 with layer\$1	US-PGPUB; USPAT	OR	ON	2011/09/09 11:53
L3	95	electroluminescent and "inorganic compound" same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:48
L4	86	electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2011/09/09 11:48
L30	84	("charge generation" or "charge-generating") adj layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49

S140	82	electrolumines\$5 and vanadium adj oxide\$1 same transport\$1 with layer\$1	US-PGPUB; USPAT	OR	ON	2011/03/21 13:29
S27	72	electroluminescent and carbazole same "hole-injecting"	US-PGPUB; USPAT	OR	ON	2009/06/25 12:03
S26	70	electroluminescent and "ruthenium oxide" same ("hole-transport" or "hole transport" or "hole transporting" or "hole transporting")	US-PGPUB; USPAT	OR	ON	2009/06/25 12:01
L5	69	electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
S73	66	fluorene with ("hole-transporting" or "hole transporting") and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/08 17:10
L52	51	(@pd<"20031222" or @ap<"20031224") and (naphthalene).ti. and charge	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
S18	51	electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 11:19
S17	47	electroluminescent and "inorganic compound" same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 11:06
S57	47	("charge generation" or "charge-generating") adj layer with cathode and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 09:32
S109	46	(@pd<"20031222" or @ap<"20031224") and (naphthalene).ti. and charge	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:28
S19	40	electroluminescent and transition same "oxide" same ("hole-transporting" or "hole transporting" or "hole transport")	US-PGPUB; USPAT	OR	ON	2009/06/25 11:19
L7	39	electroluminescent and "vanadium oxide" same "transport layer"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48

L47	36	(@pd< "20031222" or @ap< "20031224") and (naphthalene with diimide \$1) and electroluminescent	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
S5	35	nocera.in.	US-PGPUB; USPAT	OR	ON	2009/06/24 17:04
S124	26	"5059863"	US-PGPUB; USPAT	OR	OFF	2009/12/22 14:33
L25	23	N-substituted adj carbazole and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S22	20	electroluminescent and "vanadium oxide" same "transport layer"	US-PGPUB; USPAT	OR	ON	2009/06/25 11:25
L17	19	electroluminescent and (("charge generation" or "charge-generating" or "charge-generation") adj layer) same "vanadium oxide"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
L42	19	richter.in. and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:51
S64	18	("5989737" "6486601" "20050084712" "20050098207" "7158161" "20050084713" "20050170208" "20050106419" "20060008740" "6602619" "20040185299" "20050067951" "20050221124" "20050225235" "6423429" "6013384" "6589673" "20030189401").pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 14:47
S104	18	(@pd< "20031222" or @ap< "20031224") and (naphthalene with diimide \$1) and electroluminescent	US-PGPUB; USPAT	OR	OFF	2009/12/22 10:59
S84	17	richter.in. and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/09 11:33
L29	16	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") adj layer with cathode with carbazole and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S52	16	N-substituted adj carbazole and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/06/29 10:17

L53	15	(@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and ("light-emitting" or "light emitting")	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
L32	14	("5989737" "6486601" "20050084712" "20050098207" "7158161" "20050084713" "20050170208" "20050106419" "20060008740" "6602619" "20040185299" "20050067951" "20050221124" "20050225235").pn.	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
L58	14	(@pd< "20041128" or @ap< "20041130") and electroluminescent and carbazole same "vanadium oxide"	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
S59	14	("5989737" "6486601" "20050084712" "20050098207" "7158161" "20050084713" "20050170208" "20050106419" "20060008740" "6602619" "20040185299" "20050067951" "20050221124" "20050225235").pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 13:36
S113	14	(@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and ("light-emitting" or "light emitting")	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:46
L51	12	(@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and charge and electroluminescent	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
S56	12	("hole injecting" or "hole transporting" or "hole-injecting" or "hole-transporting" or "hole injection" or "hole-injection") adj layer with cathode with carbazole and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 09:23
S108	12	(@pd< "20031222" or @ap< "20031224") and (naphthalene).ti. and charge and electroluminescent	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:28

S93	11	kanamaru.in. and electroluminescent	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:10
L18	9	electroluminescent and "kido".in. and ("charge-generation" or "charge-generating" or "charge generation")	US-PGPUB; USPAT	OR	ON	2011/09/09 11:49
S34	9	electroluminescent and "kido".in. and ("charge-generation" or "charge-generating" or "charge generation")	US-PGPUB; USPAT	OR	ON	2009/06/25 13:01
L48	8	(@pd<"20031222" or @ap<"20031224") and (naphthalene with diimide \$1).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
L49	8	(@pd<"20031222" or @ap<"20031224") and (naphthalene same diimide \$1).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
L56	8	(@pd<"20031222" or @ap<"20031224") and (naphthalene and diimide).ti.	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
S77	7	("20080254318" "20050031899" "20070031701" "20070049760" "20090058261" "20080284328" "20090160323").pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 09:36
S120	6	("6103446" "6146809" "20010016269" "20010004107" "20030091862" "6114463").pn.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:54
S121	6	("20030165715" "6436558")	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:56
L35	5	oxide same improve with ("hole-transporting" or "hole transporting") adj property and electroluminescent	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
L60	5	(@pd<"20041128" or @ap<"20041130") and kido.in. and "charge generating"	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
L61	5	(@pd<"20041128" or @ap<"20041130") and kido.in. and "charge generating"	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:53
L69	5	electroluminescent and rhenium with oxide\$1 same (transport\$1 with layer\$1)	US-PGPUB; USPAT	OR	ON	2011/09/09 11:53

S33	5	electroluminescent and ("charge generation" or "charge-generating" or "charge-generation") adj layer) same "vanadium oxide"	US-PGPUB; USPAT	OR	ON	2009/06/25 13:00
S105	5	(@pd< "20031222" or @ap< "20031224") and (naphthalene with diimide \$1).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:18
S106	5	(@pd< "20031222" or @ap< "20031224") and (naphthalene same diimide \$1).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:21
S119	5	(@pd< "20031222" or @ap< "20031224") and (naphthalene and diimide).ti.	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:53
L31	4	("5989737" "6486601" 2005/0084712 2005/0098207 "7158161" 2005/0084713 2005/0170208 2005/0106419 2006/0008740 "6602619" 2004/0185299 2005/0067951 2005/0221124 2005/0225235).pn.	US-PGPUB; USPAT	OR	ON	2011/09/09 11:50
S58	4	("5989737" "6486601" 2005/0084712 2005/0098207 "7158161" 2005/0084713 2005/0170208 2005/0106419 2006/0008740 "6602619" 2004/0185299 2005/0067951 2005/0221124 2005/0225235).pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 13:35
S63	4	oxide same improve with ("hole-transporting" or "hole transporting") adj property and electroluminescent	US-PGPUB; USPAT	OR	ON	2009/07/08 14:34
S133	4	(@pd< "20041128" or @ap< "20041130") and kido. in. and "charge generating"	US-PGPUB; USPAT	OR	OFF	2010/02/04 13:58
S141	4	electroluminescent and rhenium with oxide\$1 same (transport\$1 with layer\$1)	US-PGPUB; USPAT	OR	ON	2011/03/21 13:30
S15	3	"10310574"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 10:00

S79	3	"10310574".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 09:53
S114	3	("20050251930" "20060058330")	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:48
L13	2	electroluminescent and "small ionization" same "hole-injection"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:48
L46	2	(@pd< "20031222" or @ap< "20031224") and (naphthalene with diimide \$1) same ("light-emitting" or "light emitting")	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
L59	2	(@pd< "20041128" or @ap< "20041130") and electroluminescent and "metal oxides" same arylamines	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:52
S20	2	"20050206305"	US-PGPUB; USPAT	OR	ON	2009/06/25 11:22
S39	2	2004JP-347518	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 16:55
S40	2	"20050225235".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 17:11
S47	2	2004JP-347518	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 17:43
S48	2	"20050208334".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 17:48
S111	2	"20050131220"	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:44
S112	2	"20030153005"	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:44
S129	2	(@pd< "20041128" or @ap< "20041130") and electroluminescent and carbazole same "vanadium oxide"	US-PGPUB; USPAT	OR	OFF	2010/02/04 13:56
S134	2	(@pd< "20041128" or @ap< "20041130") and kido. in. and "charge generation"	US-PGPUB; USPAT	OR	OFF	2010/02/04 13:58
L1	1	"10584308"	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:09
L44	1	(@pd< "20031222" or @ap< "20031224") and naphthalenediimide same link\$5	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51

L45	1	(@pd< "20031222" or @ap< "20031224") and naphthalenediimide same link\$5	US-PGPUB; USPAT	OR	OFF	2011/09/09 11:51
L75	1	"10584308"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:55
L76	1	"10584308"	US-PGPUB; USPAT	OR	ON	2011/09/09 11:55
S1	1	"20090058267"	US-PGPUB; USPAT	OR	ON	2009/06/24 16:24
S2	1	"6617051".pn.	US-PGPUB; USPAT	OR	ON	2009/06/24 17:00
S3	1	"20040170863".pn.	US-PGPUB; USPAT	OR	ON	2009/06/24 17:01
S4	1	"20040263069".pn.	US-PGPUB; USPAT	OR	ON	2009/06/24 17:02
S6	1	nocera.in. and cobalt	US-PGPUB; USPAT	OR	ON	2009/06/24 17:05
S8	1	1998JP-310574	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/24 17:06
S9	1	1998JP-310574	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/06/25 09:53
S28	1	electroluminescent and "small ionization" same "hole-injection"	US-PGPUB; USPAT	OR	ON	2009/06/25 12:06
S31	1	"20010022497".pn.	US-PGPUB; USPAT	OR	ON	2009/06/25 12:12
S35	1	"20050225235".pn.	US-PGPUB; USPAT	OR	ON	2009/06/25 16:11
S36	1	"20090058267".pn.	US-PGPUB; USPAT	OR	ON	2009/06/25 16:15
S49	1	"20030129448".pn.	US-PGPUB; USPAT	OR	ON	2009/06/29 08:49
S50	1	"20050225235"	US-PGPUB; USPAT	OR	ON	2009/06/29 08:54
S60	1	"20050098207".pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 13:56
S65	1	"20050225235"	US-PGPUB; USPAT	OR	ON	2009/07/08 15:12
S66	1	"20030129448"	US-PGPUB; USPAT	OR	ON	2009/07/08 15:54
S67	1	"20050225235"	US-PGPUB; USPAT	OR	ON	2009/07/08 15:58
S68	1	"6541129".pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 16:49
S69	1	"6541129".pn.	US-PGPUB; USPAT	OR	ON	2009/07/08 16:53

S70	1	1998JP-234899	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/08 17:03
S78	1	"20050067951".pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 09:48
S81	1	"20050098207".pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 10:00
S82	1	"20050067251".pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 11:32
S83	1	"20050067251".pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 11:32
S85	1	"20080284328".pn.	US-PGPUB; USPAT	OR	ON	2009/07/09 14:40
S86	1	"200056491"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:02
S89	1	"200056491"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:02
S90	1	"200056491".pn.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:02
S92	1	"200056491"	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:06
S97	1	1998JP-234899	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2009/07/09 15:17
S99	1	"20040185299"	US-PGPUB; USPAT	OR	ON	2009/07/13 15:55
S103	1	(@pd<"20031222" or @ap<"20031224") and (naphthalene with diimide \$1) same ("light-emitting" or "light emitting")	US-PGPUB; USPAT	OR	OFF	2009/12/22 10:58
S110	1	"20070116981"	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:31
S116	1	"20050176970"	US-PGPUB; USPAT	OR	OFF	2009/12/22 11:52
S122	1	"20040219387"	US-PGPUB; USPAT	OR	OFF	2009/12/22 12:35
S123	1	"5059863".pn.	US-PGPUB; USPAT	OR	OFF	2009/12/22 12:39
S125	1	"10584308"	US-PGPUB; USPAT	OR	OFF	2010/02/04 11:28
S127	1	"10310574"	JPO	OR	OFF	2010/02/04 13:36

S132	1	(@pd< "20041128" or @ap< "20041130") and electroluminescent and "metal oxides" same arylamines	US-PGPUB; USPAT	OR	OFF	2010/02/04 13:57
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